



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx QPS 17.0013U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2020-01-15\)](#)
[Issue 0 \(2018-09-26\)](#)
Date of Issue: 2020-11-19
Applicant: **Killark - A Division of Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States of America
Ex Component: Flameproof Enclosures with hinged, bolt-secured Cover. Type EXB N34 CEN, EXBLT N4 CEN EMPTY ENCLOSURE
This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).
Type of Protection: **"db" Gb, "tb" Db**
Marking: IECEx QPS 17.0013U
Ex db IIB+H2 Gb
Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

D, Adams P.Eng.

Position:

Manager, Hazardous Locations Department [Ex Equipment]

Signature:
(for printed version)

Date:

2020-11-19

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

**QPS
Evaluation Services Inc.
81 Kelfield St
Unit 8
Toronto, Ontario M9W 5A3
Canada**





IECEx Certificate of Conformity

Certificate No.: **IECEx QPS 17.0013U**

Page 2 of 4

Date of issue: 2020-11-19

Issue No: 2

Manufacturer: **Killark - A Division of Hubbell Inc.**
(Delaware)
2112 Fenton Logistics Park Blvd.
Fenton
MO 63026
United States of America

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CA/QPS/ExTR18.0008/00](#)

[CA/QPS/ExTR18.0008/01](#)

Quality Assessment Reports:

[GB/SIR/QAR16.0021/03](#)

[GB/SIR/QAR16.0021/04](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx QPS 17.0013U**

Page 3 of 4

Date of issue: 2020-11-19

Issue No: 2

Ex Component(s) covered by this certificate is described below:

The model EXB N34 CEN series and EXBLT N4 CEN series component enclosure is an external flanged SAE 310 or SAE 356 Aluminum sand casting alloy Flameproof Enclosure with hinged, bolt-secured Cover.

The cast aluminum flameproof enclosure Model EXB N34 CEN Series, and EXBLT N4 CEN Series comprise of the enclosure series number with a series of suffix of numeric and alphanumeric to identify the size of the enclosure, size and type of the conduit. Refer to Annex page for detail of the nomenclature.

Rating:

Electrical Rating: 690 V Max. Conductor Size: 500MCM/300mm²

Service temperature: -50°C to +70°C

Ingress Protection: IP 66

Temperature Classes:

1. The temperature classes shall be determined with the final product assembly.
2. Maximum power loss: Refer to Annex page table for Power loss for use in temperature Class

SCHEDULE OF LIMITATIONS:

- The enclosures shall be installed to a flat rigid surface using the mounting means provided.
- For conduit/cable and cover drilling and tapping and layout instructions, refer to drawing 18047 sheets 1-3 of 5.
- At least 40% of the cross-sectional area must remain free to permit unimpeded gas flow and therefore unrestricted development of an explosion.
- All unused openings must be fitted with certified flameproof blanking elements and have a minimum gas and IP marking equal to the marking on the enclosure.
- The enclosure certification applies to the equipment without cable glands. When installing cable glands, they must be certified as flameproof and have a minimum gas and IP marking equal to the marking on the enclosure.
- The enclosure certification applies to equipment without conduit seal fittings(stopping box). When installing conduit seal fitting, they must be certified as flameproof and have minimum gas and IP marking equal to the marking on the enclosure.
- All conduit entries shall have a sealing fitting (stopping box) at the enclosure wall.
- The end user shall provide the earthing/bonding means as necessary.
- The flanged joint has the following parameters: width: 24.7 mm, Gap less than 0.0635 mm.



IECEx Certificate of Conformity

Certificate No.: **IECEx QPS 17.0013U**

Page 4 of 4

Date of issue: 2020-11-19

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 0: Initial

Issue 1: Applicant Address change.

Issue 2:

a. Adding new sizes of enclosure to the currently listed EXBLT models: EXBLT-12186, -12188, -12246, -12248, -122412, -14146, -14148, -14248, -14308, -16166, -16168, -16248, and -162410.

b. Update schedule drawings number and contain that affect to the changes in item "a".

Annex:

[IECEx QPS 17.0013U-Annex.pdf](#)



QPS Evaluation Services Inc.

Testing, Certification and Field Evaluation Body
Accredited in Canada, the USA, and Internationally

ANNEX to IECEx QPS 17.0013U Issue No. 2, Date: 2020-12-04

Nomenclature

Item	Detail														
Type identification	Series EXB P- 8 10 6 N34 (Sample) Empty Enclosure <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>EXB</th> <th>P</th> <th>8</th> <th>10</th> <th>6</th> <th>N34</th> <th>MOD</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> </tr> </tbody> </table>	EXB	P	8	10	6	N34	MOD	1	2	3	4	5	6	7
	EXB	P	8	10	6	N34	MOD								
1	2	3	4	5	6	7									
<p>1: Box Series Constant: EXB or EXBLT 2: Cover Type: Blank or "c": Sand Cast Cover, or P: Flat Aluminum Plate 3: Width normal: 6-24 4: Length Normal: 6-36 5: Depth Normal: 4-10 6: Environmental Rating:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>EXB</th> <th>EXBLT</th> <th></th> </tr> </thead> <tbody> <tr> <td>N34</td> <td>N4</td> <td>Type 4 Steel External hardware</td> </tr> <tr> <td>N34 SU-1</td> <td>N4X</td> <td>Type 4X Stainless Steel external hardware</td> </tr> <tr> <td>N34TL</td> <td>N4TL</td> <td>Type 4x Tri-lead Stainless Steel External hardware.</td> </tr> <tr> <td>N34CEN</td> <td>N4CEN</td> <td>Type 4X, IP 66 ATEX & IECEx Certification</td> </tr> </tbody> </table> <p>7: Suffixes ++: SU3-****: Type 4X drain & breather installed Group BCD SU3-****: ATEX/IECEx drain & breather installed in Group b, Ex db IIB SU2: Install hinges- EXB-8 & smaller SU9: Special Paint. SU93: Do not paint SU1: Stainless Steel Cover bolts 302, 304 or 316. MOD: <ul style="list-style-type: none"> • Openings: NPT, NPSM, METRIC and UN series. • Windows Round "GL" Series and Rectangular "GLXR" Series • "G" Series Operators, Flameproof Operator, Device Actuator Handles. • As defined in the schedule drawing 18047 </p>	EXB	EXBLT		N34	N4	Type 4 Steel External hardware	N34 SU-1	N4X	Type 4X Stainless Steel external hardware	N34TL	N4TL	Type 4x Tri-lead Stainless Steel External hardware.	N34CEN	N4CEN	Type 4X, IP 66 ATEX & IECEx Certification
EXB	EXBLT														
N34	N4	Type 4 Steel External hardware													
N34 SU-1	N4X	Type 4X Stainless Steel external hardware													
N34TL	N4TL	Type 4x Tri-lead Stainless Steel External hardware.													
N34CEN	N4CEN	Type 4X, IP 66 ATEX & IECEx Certification													

- The above table represent the standard sizes of enclosure, Non-standard size enclosure are permitted, provided that they fall between the sizes list in the above Table, Larger or smaller enclosure than those listed, are not permitted. Distance between the fastening mechanisms of the enclosure are to be no larger than the covered by this certification.

YOUR FULL SERVICE PARTNER IN GLOBAL CONFORMITY ASSESSMENT

81 Kelfield Street, Units 7-10, Toronto, ON M9W 5A3, Canada, Ph: 416-241-8857 Fax: 416-241-0682

Web Site www.qps.ca and www.qpscertainment.com
Toll Free: 1- 877-746-4777



QPS Evaluation Services Inc.

Testing, Certification and Field Evaluation Body
Accredited in Canada, the USA, and Internationally

Electrical Rating

Rated voltage: 690 V Max. Conductor Size: 500 MCM / 300mm²

Power loss for use in temperature class

EXB-xxxx.N34	EXBLT-XXXX.N4 Series	db IIB+H2		tb	
		T6	T5	T85°C	T100°C
EXB-664, EXB-684 EXB-6124	EXBLT-664, EXBLT-684, EXBLT-686, EXBLT-6124, EXBLT-6126	95W	135W	95W	135W
EXB-886	EXBLT-886	130W	185W	130W	185W
EXB-8104	EXBLT-8104	130W	185W	130W	185W
EXB-8106	EXBLT-8106	155W	225W	155W	225W
EXB-8126	EXBLT-8126	185W	270W	185W	270W
EXB-8128	EXBLT-8128	205W	310W	205W	310W
EXB-9116	EXBLT-9116	205W	310W	205W	310W
EXB-10106	EXBLT-10106	195W	280W	195W	280W
EXB-10108	EXBLT-10108	210W	310W	210W	310W
EXB-10146	EXBLT-10146	235W	335W	235W	335W
EXB-10148	EXBLT-10148	255W	380W	255W	380W
EXB-12126	EXBLT-12126	205W	310W	205W	310W
EXB-12128	EXBLT-12128	240W	350W	240W	350W
EXB-12186	*EXBLT-12186	280W	385W	280W	385W
EXB-12188	*EXBLT12188	315W	465W	315W	465W
EXB-12246	*EXBLT-12246	350W	500W	350W	500W
EXB-12248	*EXBLT-12248	385W	565W	385W	565W
EXB-122412	*EXBLT-122412	495W	740W	485W	740W
EXB-12368	N/A	550W	795W	550W	795W
EXB-123610	N/A	590W	875W	590W	875W
EXB-14146	*EXBLT-14146	280W	385W	280W	385W
EXB-14148	*EXBLT-14148	315W	465W	315W	465W
--	*EXBLT-14248	315W	465W	315W	465W
--	*EXBLT-14308	315W	465W	315W	465W
EXB-16166	* EXBLT-16166	315W	460W	315W	460W
EXB-16168	*EXBLT-16168	340W	500W	340W	500W
EXB-16248	*EXBLT-16248	495W	735W	495W	735W
EXB-162410	*EXBLT-162410	530W	785W	530W	785W
EXB-18186	N/A	400W	585W	400W	585W
EXB-18188	N/A	440W	650W	440W	650W
EXB-18248	N/A	495W	740W	495W	740W
EXB-182410	N/A	535W	790W	535W	790W
EXB-18308	N/A	535W	790W	535W	790W
EXB-18368	N/A	685W	1020W	685W	1020W
EXB-183610	N/A	725W	1085W	725W	1085W
EXB-203611	N/A	870W	1300W	870W	1300W
EXB-24248	N/A	610W	910W	610W	910W
EXB-242410	N/A	650W	975W	650W	975W
EXB-24308	N/A	650W	975W	650W	975W
EXB-24368	N/A	850W	1265W	850W	1265W
EXB-243620	N/A	900W	1350W	900W	1350W

*Added to this list in CA/QPS/ExTR18.0008/02

YOUR FULL SERVICE PARTNER IN GLOBAL CONFORMITY ASSESSMENT

81 Kelfield Street, Units 7-10, Toronto, ON M9W 5A3, Canada, Ph: 416-241-8857 Fax: 416-241-0682

Web Site www.qps.ca and www.qpscertainment.com
Toll Free: 1- 877-746-4777